

WHAT IS CLAIMED IS:

1. Installation for the remote monitoring of a park of heterogeneous industrial production apparatuses comprising, for each apparatus, means for reading informations relating to the operation of said apparatus, means for the remote monitoring of said apparatus, communication means associated with said apparatus and connecting said apparatus to said monitoring means and adapted for the communication of said informations from said apparatus to said remote monitoring means, all of said communication means associated with said apparatuses comprising in combination: analog means for the structuration of said informations read from said apparatus, in accordance with a unified structure, independent of the type of apparatus and of said read informations, and said remote monitoring means comprising at least one monitoring station connected to said communication means of all of said apparatuses, said at least one monitoring station comprising means for exploiting said unified structure informations read from one or more apparatuses.

2. Installation according to claim 1, comprising a plurality of said at least one monitoring station connected to the communication means of all of said apparatuses.

3. Installation according to claim 1, wherein all said means for exploiting informations from said at least one monitoring station comprise analog means for processing said informations of unified structure, said processing

being independent of the type of apparatus and of the read informations, and means for interpreting said processed informations, said interpreting means being specific to the considered type of apparatus.

5 4. Installation according to claim 1, wherein each of said at least one monitoring station comprises means for establishing data for commanding an apparatus, and analog means for the structuration of said apparatus commanding data in accordance with a unified structure independent of
10 the type of the apparatus to be commanded and of said apparatus commanding data, and means for transmitting said thus structured apparatus commanding data from said at least one monitoring station to said communication means associated with said apparatus and said communication means
15 associated with said apparatus comprise means for driving said apparatus in accordance with the received commanding data.

 5. Installation according to claim 1, wherein said means for reading informations are adapted to read a
20 reduced number of elementary informations.

 6. Installation according to claim 1, wherein said communication means associated with each apparatus comprise a microcomputer provided with a program adapted for the structuration of said informations read from said
25 apparatus in accordance with said unified structure from informations read from said apparatus, said microcomputer comprising an interface for coupling to a network to which

the communication means of the other apparatuses and said at least one monitoring station are connected.

5 7.- Installation according to claim 6, wherein said network is a telephone network.

8.- Method for the remote monitoring of a park of heterogeneous industrial production apparatuses from means for the remote monitoring of the type comprising the steps of, for each apparatus, reading informations relating to the operation of the apparatus, and communicating said informations
10 from said apparatus to said remote monitoring means, characterized in that for the communication between all said apparatus to said remote monitoring means, the informations read from the apparatus are structured, in accordance with a unified structure, independent of the type of the apparatus and of the read informations, and the unified structure informations read from one
15 or more apparatuses are exploited by said remote monitoring means.

9.- Method according to claim 8, wherein for exploiting the informations, the processing of the informations of unified structure is independent of the type of apparatus and of the read informations, and said processed informations are interpreted by interpreting means which are specific to the
20 considered type of apparatus.

10.- Method according to claim 8, wherein the monitoring means establish data for commanding an apparatus, the command data being structured according to a unified structure independent of the type of the apparatus to be commanded and of the command data, and wherein structured
25 control data are transmitted from said monitoring means to the apparatus to be commanded which is piloted in accordance with the received command data.